

IMPROVING NEW-WORD PRONUNCIATION LEARNING USING A PRONUNCIATION GRAPH

ABSTRACT OF THE DISCLOSURE

A method and computer-readable medium convert the text of a word and a user's pronunciation of the word into a phonetic description to be added to a speech recognition lexicon. Initially, a plurality of at least two possible phonetic descriptions are generated. One phonetic description is formed by decoding a speech signal representing a user's pronunciation of the word. At least one other phonetic description is generated from the text of the word. The plurality of possible sequences comprising speech-based and text-based phonetic descriptions are aligned and scored in a single graph based on their correspondence to the user's pronunciation. The phonetic description with the highest score is then selected for entry in the speech recognition lexicon.